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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N		
10/650,885 08/28/2003		Detlef Haje	2001P00790WOUS	8729		
. 75	590 10/28/2004		EXAMINER			
SIEMENS CORPORATION			MCALEENA	N, JAMES M		
INTELLECTUAL PROPERTY DEPT. 170 WOOD AVENUE SOUTH ISELIN, NJ 08830			ART UNIT	PAPER NUMBER		
			3745			

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	cation No.	Applicant(s)		1	八	
			50,885	HAJE, DETLEF	HAJE, DETLEF			
Office Action Summary		Exam	niner	Art Unit				
			s M McAleenan	3745				
Period fo	The MAILING DATE of this communi r Reply	cation appears o	n the cover sheet with th	e correspondence add	dres	s		
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNI- nsions of time may be available under the provisions. SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (30 period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months a ad patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In unication. 0) days, a reply within th tutory period will apply a will, by statute, cause th	no event, however, may a reply be e statutory minimum of thirty (30) and will expire SIX (6) MONTHS fi e application to become ABANDC	e timely filed days will be considered timely rom the mailing date of this co NED (35 U.S.C. § 133).	'. mmur	nicatic	on.	
Status								
1)	Responsive to communication(s) file	d on						
2a) <u></u> □	This action is FINAL .	2b)⊠ This action	is non-final.					
3)	Since this application is in condition	for allowance ex	cept for formal matters,	prosecution as to the	mer	its i	is	
	closed in accordance with the practic	ce under <i>Ex parte</i>	e <i>Quayle</i> , 1935 C.D. 11,	453 O.G. 213.				
Dispositi	on of Claims			•				
4)🖾	Claim(s) 1-41 is/are pending in the a	pplication.						
	4a) Of the above claim(s) is/ar	e withdrawn fron	n consideration.					
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1,2,4,6-12,14,16,18,20,22,2	2 <u>4,26-28,30,32-3</u>	<u>5,37 <i>and</i> 39-41</u> is/are re	jected.				
7)	Claim(s) 3,5,13,15,17,19,21,23,25,2	<u>9,31,36 and 38</u> is	s/are objected to.					
8)□	Claim(s) are subject to restric	tion and/or electi	on requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	e Examiner.		•				
10)🛛	The drawing(s) filed on <u>28 August 20</u>	<u>03</u> is/are: a)⊠ a	accepted or b) objecte	ed to by the Examiner	ſ.			
	Applicant may not request that any object	ction to the drawing	g(s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is re	equired if the drawing(s) is	objected to. See 37 CF	R 1.	121((d).	
11)	The oath or declaration is objected to	by the Examine	r. Note the attached Off	ice Action or form PT	O-1	52.		
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim of Acknowledgment is made of a claim of All b) Some * c) None of: 1. Certified copies of the priority of All Copies of the certified copies of the priority of All Copies of the certified copies of Application from the Internation of the attached detailed Office actions	documents have documents have of the priority doc nal Bureau (PCT	been received. been received in Applic cuments have been rece Rule 17.2(a)).	eation No sived in this National S	Stag	e		
Attachment	` '		A) 🗍 January 2000 (200	on/(DTO 440)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948)	4)	ary (P10-413) I Date				
3) 🗵 Inforr	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>8/28/2003</u> .			al Patent Application (PTO	-152)	١ .		

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DETAILED ACTION

Claim Objections

1. Claims 1, 9 and 28-34 are objected to because of the following informalities: The term "can" is an indefinite term and should be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 11, line 3, the "expansion stage" has not been identified as either the first or second expansion stage? Applicant needs to insert the term - -first- - before the "expansion stage".

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4, 6-12, 14, 16, 18, 20, 22, 24, 26-28, 30, 32-35, 37 and 39-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoizumi et al. (U.S. Patent Number 4,693,086) in view of Herr (U.S. Patent Number 4,077,432). The Hoizumi et al. device discloses a steam line isolation valve for closing a steam line particularly in a steam turbine system

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between a first expansion stage and second expansion stage that is operated at lower pressure than the first expansion stage (see Figures 1a, 3a, 4a, 5a and Col. 3, lines 42-50 and Col. 6, lines 55-63 and Col. 8, lines 28-44). Regarding claim 11, the Hoizumi et al. device discloses one first expansion stage and one second expansion stage that is operated at lower pressure than the first expansion stage of which there is at least one (see Figures 1a, 3a, 4a, 5a and Col. 3, lines 42-50 and Col. 6, lines 55-63 and Col. 8, lines 28-44). The Hoizumi et al. device discloses one steam line for feeding the second expansion stage, wherein there is disposed in each of the steam lines, upstream of the supply lines to the second expansion stage, a steam isolation valve (see Figures 1a, 3a, 4a, 5a and Col. 3, lines 42-50 and Col. 6, lines 55-63 and Col. 8, lines 28-44). However, the Hoizumi et al. device does not disclose the elements and characteristics of the valve that cover the cross-section of the steam line.

However, Herr (U.S. Patent Number 4,077,432) discloses a valve having a plurality of elements that jointly cover the cross-section of the steam line (see Figure 2 and Col. 1, lines 10-22 of Herr). Regarding claim 2, Herr discloses the valve having a recess that does not extend over the entire thickness of the elements (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 4, Herr discloses the elements are matched to the cross-section of the steam line. Regarding claim 6, Herr discloses the elements having the same width (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 7, Herr discloses the elements have different dimensions for matching to the cross-section of the steam line (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 8, Herr discloses the elements having the same moment of inertia about an axis of rotation. Regarding claim 9, Herr discloses the elements of the steam

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line isolation valve can move independently of one another. Regarding claim 10, Herr discloses a plurality of element of the steam line isolation valve being connected to a common drive via a gear(see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 12, Herr discloses the elements are matched to the cross-section of the steam line (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 14, Herr discloses the elements having the same width (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 18, Herr discloses the elements have different dimensions for matching to the cross-section of the steam line. Regarding claim 20, Herr discloses the elements have different dimensions for matching to the cross-section of the steam line. Regarding claim 22, Herr discloses the elements having the same moment of inertia about an axis of rotation (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 24, Herr discloses the elements having the same moment of inertia about an axis of rotation (see Figures 4-7 and Col. 3, lines 48-68 and Col. 4, lines 1-19 and lines 57-68 of Herr). Regarding claim 26, Herr discloses the elements having the same moment of inertia about an axis of rotation. Regarding claim 27, Herr discloses the elements having the same moment of inertia about an axis of rotation. Regarding claim 28, Herr discloses the elements of the valve that can move independently of one another. Regarding claim 30, Herr discloses the elements of the valve that can move independently of one another. Regarding claim 32, Herr discloses the elements of the valve that can move independently of one another. Regarding claim 33, Herr discloses the elements of the valve that can move independently of one another. Regarding claim 34, Herr discloses the elements of the valve that can move independently of one another. Regarding claim 35, Herr discloses a

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plurality of element of the steam line isolation valve being connected to a common drive via a gear. Regarding claim 37, Herr discloses a plurality of element of the steam line isolation valve being connected to a common drive via a gear. Regarding claim 39, Herr discloses a plurality of element of the steam line isolation valve being connected to a common drive via a gear. Regarding claim 40, Herr discloses a plurality of element of the steam line isolation valve being connected to a common drive via a gear. Regarding claim 41, Herr discloses a plurality of element of the steam line isolation valve being connected to a common drive via a gear. It would have been obvious to one having ordinary skill in the art, at the time applicant's invention was made, to modify the Hoizumi et al. device by incorporating the valve as taught by Herr, for the purpose of having flow control as claimed by Applicant's claimed invention.

Allowable Subject Matter

Claims 3, 13,15,19,23,29,36 and 5, 17,21,25,31,38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Since claim 3 has the novel features and claims 13,15,19,23,29,36 depend from claim 3, they have been included. Since claim 5 has the novel features and claims 17,21,25,31,38 depend from claim 5, they have been included.

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PRIOR ART

The prior art made of record but not relied upon is considered pertinent to applicant's disclosure and consists of 1 patent.

Valve Feaatures:

Hughey (U.S. Patent Number 4,187,878) is cited to show similar valve features as claimed by Applicant's invention.

Brenes (U.S. Patent Number 6,293,306) is cited to show similar valve features as claimed by Applicant's invention.

Karlicek (U.S. Patent Number 5,765,592) is cited to show similar airfoil features as claimed by Applicant's invention.

Bowman et al. (U.S. Patent Number 3,532,321) is cited to show similar airfoil features as claimed by Applicant's invention.

De Roo (U.S. Patent Number 2,837,991) is cited to show similar airfoil features as claimed by Applicant's invention.

Suzuki (U.S. Patent Number 6,131,882) is cited to show similar airfoil features as claimed by Applicant's invention.

Control System for Pump Operation:

Lee et al. (U.S. Patent Number 6,045,332) is cited to show similar control system features as claimed by Applicant's invention.

Binstock et al. (U.S. Patent Number 4,455,836) is cited to show similar control system features as claimed by Applicant's invention.

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Binstock et al. (U.S. Patent Number 4,455,836) is cited to show similar control system

features as claimed by Applicant's invention.

Binstock et al. (U.S. Patent Number 4,448,026) is cited to show similar control system

features as claimed by Applicant's invention.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to James M McAleenan whose telephone number is 703-308-2827.

The examiner can normally be reached on M-F 8:30-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look can be reached on 703-308-1044. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James M. McAleenan

Patent Examiner

703-308-2827

f. m. m al "/21/04

EDWARD K. LOOK

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700

10/27/09

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